

Mohammad A Behnajady

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99
papers

4,368
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37
h-index

64
g-index

101
ext. papers

4,774
ext. citations

5.6
avg, IF

5.87
L-index

#	Paper	IF	Citations
99	Kinetic study on photocatalytic degradation of C.I. Acid Yellow 23 by ZnO photocatalyst. <i>Journal of Hazardous Materials</i> , 2006 , 133, 226-32	12.8	662
98	Kinetic modeling of photocatalytic degradation of Acid Red 27 in UV/TiO ₂ process. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004 , 168, 39-45	4.7	184
97	A kinetic model for the decolorization of C.I. Acid Yellow 23 by Fenton process. <i>Journal of Hazardous Materials</i> , 2007 , 148, 98-102	12.8	162
96	Photocatalytic degradation of an azo dye in a tubular continuous-flow photoreactor with immobilized TiO ₂ on glass plates. <i>Chemical Engineering Journal</i> , 2007 , 127, 167-176	14.7	150
95	Investigation of the effect of different electrodes and their connections on the removal efficiency of 4-nitrophenol from aqueous solution by electrocoagulation. <i>Journal of Hazardous Materials</i> , 2008 , 154, 778-86	12.8	150
94	Investigation of the effect of sol-gel synthesis variables on structural and photocatalytic properties of TiO ₂ nanoparticles. <i>Desalination</i> , 2011 , 278, 10-17	10.3	133
93	Photooxidative degradation of Malachite Green (MG) by UV/H ₂ O ₂ : Influence of operational parameters and kinetic modeling. <i>Dyes and Pigments</i> , 2006 , 70, 54-59	4.6	110
92	Photodestruction of Acid Orange 7 (AO7) in aqueous solutions by UV/H ₂ O ₂ : influence of operational parameters. <i>Chemosphere</i> , 2004 , 55, 129-34	8.4	109
91	Investigation of the effect of different electrode connections on the removal efficiency of Tartrazine from aqueous solutions by electrocoagulation. <i>Dyes and Pigments</i> , 2007 , 74, 249-257	4.6	108
90	UV/H ₂ O ₂ treatment of Rhodamine B in aqueous solution: Influence of operational parameters and kinetic modeling. <i>Desalination</i> , 2008 , 230, 16-26	10.3	108
89	Photooxidative degradation of 4-nitrophenol (4-NP) in UV/H ₂ O ₂ process: influence of operational parameters and reaction mechanism. <i>Journal of Hazardous Materials</i> , 2007 , 139, 275-9	12.8	106
88	Decolorization and mineralization of C.I. Acid Yellow 23 by Fenton and photo-Fenton processes. <i>Dyes and Pigments</i> , 2007 , 73, 305-310	4.6	105
87	Synthesis of mesoporous NiO nanoparticles and their application in the adsorption of Cr(VI). <i>Chemical Engineering Journal</i> , 2014 , 239, 105-113	14.7	90
86	Ultrasonic degradation of Rhodamine B in aqueous solution: influence of operational parameters. <i>Journal of Hazardous Materials</i> , 2008 , 152, 381-6	12.8	86
85	Photocatalytic degradation of C.I. Acid Red 27 by immobilized ZnO on glass plates in continuous-mode. <i>Journal of Hazardous Materials</i> , 2007 , 140, 257-63	12.8	77
84	Silver and copper co-impregnated onto TiO ₂ -P25 nanoparticles and its photocatalytic activity. <i>Chemical Engineering Journal</i> , 2013 , 228, 1207-1213	14.7	76
83	Study of the Effect of Additives on the Photocatalytic Degradation of a Triphenylmethane Dye in the Presence of Immobilized TiO ₂ /NiO Nanoparticles: Artificial Neural Network Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 6881-6895	3.9	74

82	Effect of operational parameters on decolorization of Acid Yellow 23 from wastewater by UV irradiation using ZnO and ZnO/SnO ₂ photocatalysts. <i>Desalination</i> , 2011 , 271, 187-192	10.3	74
81	Ultrasonic-assisted degradation of phenazopyridine with a combination of Sm-doped ZnO nanoparticles and inorganic oxidants. <i>Ultrasonics Sonochemistry</i> , 2016 , 28, 169-177	8.9	72
80	TiO ₂ /CeO ₂ Hybrid Photocatalyst with Enhanced Photocatalytic Activity: Optimization of Synthesis Variables. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 7847-7855	3.9	69
79	Effect of operational parameters on degradation of Malachite Green by ultrasonic irradiation. <i>Ultrasonics Sonochemistry</i> , 2008 , 15, 1009-14	8.9	63
78	Photooxidative degradation of Acid Red 27 in a tubular continuous-flow photoreactor: influence of operational parameters and mineralization products. <i>Journal of Hazardous Materials</i> , 2005 , 118, 155-60	12.8	60
77	Increasing photoactivity of titanium dioxide immobilized on glass plate with optimization of heat attachment method parameters. <i>Journal of Hazardous Materials</i> , 2008 , 160, 508-13	12.8	57
76	Kinetics of decolorization of an azo dye in UV alone and UV/H ₂ O ₂ processes. <i>Journal of Hazardous Materials</i> , 2006 , 136, 816-21	12.8	53
75	High-temperature stable anatase-type TiO ₂ nanotube arrays: A study of the structure-activity relationship. <i>Applied Catalysis B: Environmental</i> , 2016 , 185, 119-132	21.8	50
74	Sol-gel low-temperature synthesis of stable anatase-type TiO ₂ nanoparticles under different conditions and its photocatalytic activity. <i>Photochemistry and Photobiology</i> , 2011 , 87, 1002-8	3.6	50
73	UV-LEDs assisted preparation of silver deposited TiO ₂ catalyst bed inside microchannels as a high efficiency microphotoreactor for cleaning polluted water. <i>Chemical Engineering Journal</i> , 2015 , 270, 158-167	14.7	48
72	Minimization of electrical energy consumption in the photocatalytic reduction of Cr(VI) by using immobilized Mg, Ag co-impregnated TiO ₂ nanoparticles. <i>RSC Advances</i> , 2014 , 4, 28587	3.7	47
71	Photocatalytic degradation of chloramphenicol in an aqueous suspension of silver-doped TiO ₂ nanoparticles. <i>Environmental Technology (United Kingdom)</i> , 2013 , 34, 1161-6	2.6	46
70	Ultrasonic-assisted sol-gel synthesis of samarium, cerium co-doped TiO ₂ nanoparticles with enhanced sonocatalytic efficiency. <i>Ultrasonics Sonochemistry</i> , 2015 , 26, 281-292	8.9	45
69	The effect of particle size and crystal structure of titanium dioxide nanoparticles on the photocatalytic properties. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2008 , 43, 460-7	2.3	45
68	Chromium(VI) adsorption from aqueous solution by prepared biochar from Onopordom Heteracanthom. <i>International Journal of Environmental Science and Technology</i> , 2016 , 13, 1803-1814	3.3	45
67	Synthesis and characterization of high efficient photoluminescent sunlight driven photocatalyst of N-Carbon Quantum Dots. <i>Journal of Luminescence</i> , 2018 , 201, 265-274	3.8	42
66	Evaluation of electrical energy per order (EEO) with kinetic modeling on the removal of Malachite Green by US/UV/H ₂ O ₂ process. <i>Desalination</i> , 2009 , 249, 99-103	10.3	41
65	Investigation of the effect of heat attachment method parameters at photocatalytic activity of immobilized ZnO nanoparticles on glass plate. <i>Desalination</i> , 2009 , 249, 1371-1376	10.3	40

64	Characterization and photocatalytic activity of Ag-Cu/TiO ₂ nanoparticles prepared by sol-gel method. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 548-53	1.3	39
63	Evaluation of Electrical Energy Per Order (EEO) with Kinetic Modeling on Photooxidative Degradation of C. I. Acid Orange 7 in a Tubular Continuous-Flow Photoreactor. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 553-557	3.9	39
62	Ultrasonic-assisted synthesis of Ce doped cubic-hexagonal ZnTiO ₃ with highly efficient sonocatalytic activity. <i>Ultrasonics Sonochemistry</i> , 2016 , 29, 258-69	8.9	37
61	Effects of Operational Parameters on Decolorization of C. I. Acid Red 88 by UV/H ₂ O ₂ Process: Evaluation of Electrical Energy Consumption. <i>Clean - Soil, Air, Water</i> , 2012 , 40, 298-302	1.6	34
60	Synthesis of Mg-Doped TiO ₂ nanoparticles under different conditions and its photocatalytic activity. <i>Photochemistry and Photobiology</i> , 2011 , 87, 1308-14	3.6	34
59	Fabrication of an iron(III) PVC-membrane sensor based on bis-benzilthiocarbohydrazide as a selective sensing material. <i>Materials Science and Engineering C</i> , 2009 , 29, 1535-1539	8.3	34
58	Critical effect of hydrogen peroxide concentration in photochemical oxidative degradation of C.I. Acid Red 27 (AR27). <i>Chemosphere</i> , 2004 , 56, 895-900	8.4	34
57	Preparation of novel high performance recoverable and natural sunlight-driven nanocomposite photocatalyst of Fe ₃ O ₄ /C/TiO ₂ /N-CQDs. <i>Materials Science in Semiconductor Processing</i> , 2018 , 87, 142-154	4.3	32
56	Adsorption of C.I. Acid Red 97 dye from aqueous solution onto walnut shell: kinetics, thermodynamics parameters, isotherms. <i>International Journal of Environmental Science and Technology</i> , 2015 , 12, 1401-1408	3.3	30
55	Preparation of TiO ₂ nanoparticles by the sol-gel method under different pH conditions and modeling of photocatalytic activity by artificial neural network. <i>Research on Chemical Intermediates</i> , 2015 , 41, 2001-2017	2.8	28
54	Investigation on adsorption capacity of TiO ₂ -P25 nanoparticles in the removal of a mono-azo dye from aqueous solution: A comprehensive isotherm analysis. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2014 , 20, 97-107	0.7	28
53	Photo and Chemical Reduction of Copper onto Anatase-Type TiO ₂ Nanoparticles with Enhanced Surface Hydroxyl Groups as Efficient Visible Light Photocatalysts. <i>Photochemistry and Photobiology</i> , 2015 , 91, 797-806	3.6	27
52	Enhanced photocatalytic degradation of C.I. Basic Violet 2 using TiO ₂ -SiO ₂ composite nanoparticles. <i>Photochemistry and Photobiology</i> , 2011 , 87, 795-801	3.6	26
51	Sonocatalytic degradation of Acid Red 1 by sonochemically synthesized zinc sulfide-titanium dioxide nanotubes: Optimization, kinetics and thermodynamics studies. <i>Journal of Cleaner Production</i> , 2019 , 215, 1341-1350	10.3	25
50	Enhancement photocatalytic activity of ZnO nanoparticles by silver doping with optimization of photodeposition method parameters. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2009 , 44, 666-72	2.3	24
49	Enhanced photocatalytic removal of phenazopyridine by using silver-impregnated SiO ₂ @TiO ₂ nanoparticles: optimization of synthesis variables. <i>Research on Chemical Intermediates</i> , 2015 , 41, 9929-9949	2.8	22
48	Synthesis of Fe ₃ O ₄ @NiO core-shell nanocomposite by the precipitation method and investigation of Cr(VI) adsorption efficiency. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 538, 287-296	5.1	22
47	Synthesis of TiO ₂ nanoparticles in different thermal conditions and modeling its photocatalytic activity with artificial neural network. <i>Journal of Environmental Sciences</i> , 2012 , 24, 750-6	6.4	21

46	Sol-gel synthesis of Ba-doped ZnO nanoparticles with enhanced photocatalytic activity in degrading Rhodamine B under UV-A irradiation. <i>Optik</i> , 2017 , 147, 143-150	2.5	21
45	Kinetic modeling on photooxidative degradation of C.I. Acid Orange 7 in a tubular continuous-flow photoreactor. <i>Chemosphere</i> , 2006 , 62, 1543-8	8.4	21
44	Synthesis, Characterization and Photocatalytic Activity of Mg-Impregnated ZnO-SnO ₂ Coupled Nanoparticles. <i>Photochemistry and Photobiology</i> , 2014 , 90, 51-6	3.6	20
43	Determination of the Optimum Conditions for the Leaching of Lead from Zinc Plant Residues in NaCl/2SO ₄ /Ca(OH) ₂ Media by the Taguchi Method. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 3887-3894	3.9	20
42	Nonlinear regression analysis of kinetics of the photocatalytic decolorization of an azo dye in aqueous TiO ₂ slurry. <i>Photochemical and Photobiological Sciences</i> , 2006 , 5, 1078-81	4.2	20
41	Mg and La Co-doped ZnO Nanoparticles Prepared by Sol-gel Method: Synthesis, Characterization and Photocatalytic Activity. <i>Periodica Polytechnica: Chemical Engineering</i> , 2019 , 64, 61-74	1.3	18
40	Influence of operational parameters and kinetics analysis on the photocatalytic reduction of Cr(VI) by immobilized ZnO. <i>Environmental Technology (United Kingdom)</i> , 2012 , 33, 265-71	2.6	17
39	A comparative study of photocatalytic degradation of the antibiotic cefazolin by suspended and immobilized TiO ₂ nanoparticles. <i>Desalination and Water Treatment</i> , 2016 , 57, 12874-12881		15
38	Design equation with mathematical kinetic modeling for photooxidative degradation of C.I. Acid Orange 7 in an annular continuous-flow photoreactor. <i>Journal of Hazardous Materials</i> , 2009 , 165, 168-73 ^{12.8}		15
37	Mathematical Kinetic Modelling and Representing Design Equation for a Packed Photoreactor with Immobilised TiO ₂ -P25 Nanoparticles on Glass Beads in the Removal of C.I. Acid Orange 7. <i>Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa</i> , 2015 , 36, 125-133		14
36	A high-efficient batch-recirculated photoreactor packed with immobilized TiO ₂ -P25 nanoparticles onto glass beads for photocatalytic degradation of phenazopyridine as a pharmaceutical contaminant: artificial neural network modeling. <i>Water Science and Technology</i> , 2016 , 73, 2804-14	2.2	14
35	Synthesis, characterization, and photocatalytic activity of co-doped Ag/Mg/TiO ₂ -P25 by photodeposition and impregnation methods. <i>Desalination and Water Treatment</i> , 2016 , 57, 10451-10461		12
34	Determination of optimum conditions for removal of Acid Orange 7 in batch-recirculated photoreactor with immobilized TiO ₂ -P25 nanoparticles by Taguchi method. <i>Desalination and Water Treatment</i> , 2015 , 56, 2417-2424		11
33	Enhancement of Removal Rate of an Organic Pollutant in the Presence of Immobilized TiO ₂ Nanoparticles with Inorganic Anions Combination: Optimization Using Taguchi Approach. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 15324-15330	3.9	11
32	Investigation of the efficiency of a tubular continuous-flow photoreactor with supported titanium dioxide nanoparticles in the removal of 4-nitrophenol: operational parameters, kinetics analysis and mineralization studies. <i>Water Science and Technology</i> , 2011 , 64, 56-62	2.2	11
31	Optimizing adsorption of Cr(VI) from aqueous solutions by NiO nanoparticles using Taguchi and response surface methods. <i>Water Science and Technology</i> , 2015 , 72, 721-9	2.2	10
30	Optimization of UV/inorganic oxidants system efficiency for photooxidative removal of an azo textile dye. <i>Desalination and Water Treatment</i> , 2015 , 55, 210-226		10
29	Visible-light-induced degradation of Rhodamine B by Ba doped ZnO nanoparticles. <i>Journal of Molecular Liquids</i> , 2020 , 315, 113633	6	10

28	Hydrothermal synthesis of mesoporous TiO ₂ nanotubes and their adsorption affinity toward Basic Violet 2. <i>Journal of Porous Materials</i> , 2018 , 25, 359-371	2.4	10
27	Hybrid Homogeneous and Heterogeneous Photocatalytic Processes for Removal of Triphenylmethane Dyes: Artificial Neural Network Modeling. <i>Clean - Soil, Air, Water</i> , 2016 , 44, 809-817	1.6	10
26	Sol-gel preparation and characterization of Ag and Mg co-doped nano TiO ₂ : efficient photocatalytic degradation of C.I. Acid Red 27. <i>Research on Chemical Intermediates</i> , 2016 , 42, 595-609	2.8	9
25	Artificial neural network modeling of the influence of sol-gel synthesis variables on the photocatalytic activity of TiO ₂ nanoparticles in the removal of Acid Red 27. <i>Research on Chemical Intermediates</i> , 2015 , 41, 6463-6476	2.8	9
24	Photooxidative degradation of Acid Red 27 (AR27): modeling of reaction kinetic and influence of operational parameters. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2004 , 39, 2319-32	2.3	9
23	Horizontally rotating disc recirculated photoreactor with TiO ₂ -P25 nanoparticles immobilized onto a HDPE plate for photocatalytic removal of p-nitrophenol. <i>Environmental Technology (United Kingdom)</i> , 2018 , 39, 1061-1070	2.6	8
22	Enhancement of TiO ₂ -UV100 nanoparticles photocatalytic activity by Mg impregnation in the removal of a model organic pollutant. <i>Desalination and Water Treatment</i> , 2015 , 53, 689-696		7
21	Application of response surface methodology for optimization of operational variables in photodegradation of phenazopyridine drug using TiO ₂ /CeO ₂ hybrid nanoparticles. <i>Desalination and Water Treatment</i> , 2015 , 54, 3300-3310		7
20	Photooxidative Removal of Phenazopyridine by UV/H ₂ O ₂ Process in a Batch Re-circulated Annular Photoreactor: Influence of Operational Parameters. <i>Oriental Journal of Chemistry</i> , 2015 , 31, 1211-1214	0.8	6
19	Synthesis, characterization, and photocatalytic activity of sol-gel prepared Mg/ZnO nanoparticles. <i>Desalination and Water Treatment</i> , 2015 , 1-7		5
18	Photocatalytic activity of Cu doped TiO ₂ nanoparticles and comparison of two main doping procedures. <i>Micro and Nano Letters</i> , 2013 , 8, 345-348	0.9	5
17	Intensification of Azo Dye Removal Rate in the Presence of Immobilized Nanoparticles and Inorganic Anions under UV-C Irradiation: Optimization by Response Surface Methodology. <i>International Journal of Photoenergy</i> , 2013 , 2013, 1-11	2.1	5
16	Optimization of photocatalytic activity of immobilized TiO ₂ -P25 nanoparticles in the removal of phenazopyridine using response surface methodology. <i>Russian Journal of Applied Chemistry</i> , 2016 , 89, 1544-1551	0.8	5
15	Optimization of photooxidative removal of p-nitrophenol in a spinning disc photoreactor using response surface methodology. <i>Chemical Engineering Communications</i> , 2019 , 206, 398-408	2.2	5
14	Artificial neural network modeling of Cr(VI) photocatalytic reduction with TiO ₂ -P25 nanoparticles using the results obtained from response surface methodology optimization. <i>Desalination and Water Treatment</i> , 2014 , 1-11		4
13	Efficiency of a Photoreactor Packed with Immobilized Titanium Dioxide Nanoparticles in the Removal of Acid Orange 7. <i>Water Environment Research</i> , 2016 , 88, 449-57	2.8	4
12	Synthesis of TiO (B) and High-temperature Stable Anatase TiO Nanowires by Hydrothermal Method and Investigation of Photocatalytic Activity. <i>Photochemistry and Photobiology</i> , 2019 , 95, 733-739	3.6	4
11	Optimization of Photooxidative Removal of Phenazopyridine from Water. <i>Russian Journal of Physical Chemistry A</i> , 2018 , 92, 876-883	0.7	2

10	Combination of Design Equation and Kinetic Modeling for a Batch-Recirculated Photoreactor at Photooxidative Removal of C.I. Acid Red 17. <i>International Journal of Chemical Reactor Engineering</i> , 2012 , 10,	1.2	2
9	The effect of operational parameters in the photocatalytic activity of synthesized Mg/ZnO/BiO ₂ nanoparticles. <i>Desalination and Water Treatment</i> , 2013 , 1-7		2
8	Hybridized advanced oxidation processes involving UV/H ₂ O ₂ /S ₂ O ₂ 2-8 for photooxidative removal of p-nitrophenol in an annular continuous-flow photoreactor. <i>Kinetics and Catalysis</i> , 2016 , 57, 768-775	1.5	2
7	Artificial Neural Network Modelling of Photocatalytic Degradation of Diclofenac as a Pharmaceutical Contaminant. <i>Journal of Water Chemistry and Technology</i> , 2020 , 42, 252-261	0.4	1
6	A mechanistic study on photocatalytic activity of hydrothermally synthesized titanium dioxide nanowires decorated by silver phosphate. <i>Materials Science in Semiconductor Processing</i> , 2022 , 142, 106501	4.3	1
5	PHOTOCATALYTIC ACTIVITY OF Ag/TiO ₂ -P25 MODIFIED CEMENT: OPTIMIZATION USING TAGUCHI APPROACH. <i>Environmental Engineering and Management Journal</i> , 2018 , 17, 1131-1138	0.6	1
4	Achieving the Enhanced Photocatalytic Degradation of Ceftriaxone Sodium Using CdS-g-C ₃ N ₄ Nanocomposite under Visible Light Irradiation: RSM Modeling and Optimization. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021 , 31, 3164	3.2	0
3	Photocatalytic Removal of RhB by Ag and Mg Co-Doped ZnO Nanoparticles: Modeling of Operational Parameters Using ANN Based on RSM Data. <i>Russian Journal of Physical Chemistry A</i> , 2019 , 93, 1769-1777	0.7	
2	Specification of the Operational Parameters Contribution in the Efficiency of TiO ₂ -P25 Nanoparticles in the Photocatalytic Removal of Cr(VI) by Taguchi Method. <i>Oriental Journal of Chemistry</i> , 2014 , 30, 1999-2003	0.8	
1	Response Surface Methodology Optimized Sol-Gel Synthesis of Ag, Mg co-Doped ZnO Nanoparticles with High Photocatalytic Activity. <i>Russian Journal of Physical Chemistry A</i> , 2018 , 92, 2015-2024	0.7	